

Amendments to the Claim:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-4 (cancelled).

5 (currently amended). An isolated Chlamydia pneumoniae protein free of any other chlamydial protein, or peptide which is (i) an isolated protein derived from Chlamydia pneumoniae having wherein said isolated protein comprises the amino acid sequence selected from the group consisting of as set forth in SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:12, SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, and SEQ ID NO:24, said protein being free of any other chlamydial protein, or (ii) an isolated peptide or protein which consists of an amino acid sequence which is a subsequence, at least 6 amino acids in length, of at least one of said isolated proteins of (i) above, said subsequence comprising at least one T cell epitope of at least one of said isolated proteins of (i) above.

6-9 (cancelled).

10 (currently amended). A composition for immunising a mammal against Chlamydia pneumoniae, said composition comprising a peptide or protein of claim 5 and a pharmaceutically acceptable carrier.

11-12 (cancelled).

13 (withdrawn - currently amended). A method of immunizing a mammal against Chlamydia pneumoniae which comprises use of an immunologically effective amount of a protein according to claim 5 with the sequence shown in SEQ ID NO:2, SEQ ID NO:4, SEQ ID NO:6, SEQ ID NO:8, SEQ ID NO:10, SEQ ID NO:12, SEQ ID NO:14, SEQ ID NO:16, SEQ ID NO:18, SEQ ID NO:20, SEQ ID NO:22, or SEQ ID NO:24, or a subsequence thereof, for immunising a mammal against Chlamydia pneumoniae.

14-17 (cancelled).

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18 (withdrawn - currently amended). Species specific method for identifying infection of a mammal with *Chlamydia pneumoniae*, said method comprising

(a) obtaining a sample of a biological fluid or tissue from a mammal suspected of being infected with *Chlamydia pneumoniae*,

(b) contacting said sample with a diagnostic reagent, said reagent comprising an isolated protein according to claim \pm 5 in labeled or immobilized form, and

(c) correlating the binding of said protein with a component of said sample to the presence or absence of an infection.

19-44 (cancelled).